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SOUTH PACIFIC ISLANDS FISHERIES DEVELOPMENT AGENCY

UNDP/FAO/SPC

SECOND FISHERIES CONSULTATIVE COMMITTEE MEETING

Noumea, New Caledonia 18 - 22 October 1971

PROPOSED SUB-PROJECT

- 1. <u>Title</u>: Organization of a marine demonstration centre at St. Vincent Bay, New Caledonia.
- 2. <u>Background and justification</u>
 - 2-1. The work of many specialists and in particular the last report by Mr Glude, expert in oyster farming, has emphasized the exceptional suitability of environmental conditions in St. Vincent Bay, New Caledonia.
- 2-2. Scientific research, e specially since 1960, has produced a great deal of preliminary documentation on the hydrological and biological conditions.
 - 2-3. Types of environment are exceptionally varied in St. Vincent Bay where there are:-
 - The deltas and estuaries of the Ouenghi, Ouamenie and Tontouta rivers which bring fresh water and mineral salts.
 - Numerous mangrove channels and large salt marshes easy to bar and to dam.
 - Large inland muddy and sandy-muddy bays.
 - Peninsulas and archipelagos with different kinds of sheltered shores sandy or rocky.
 - Large coral formations fringing or barriers with a good interchange of ocean water through the St. Vincent pass.

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- 2-4. Easy access by road and by boat facilitates transport of materials, equipment and products. With Tontouta International Airport close by, reproduction stock larvae and juveniles, can be brought in from elsewhere (Australia, Japan, Hawaii, Tahiti).
 - 2-5. Noumea being near affords logistics support in personnel and equipment, scientific support through the ORSTOM laboratories and easy liaison with the Headquarters of the South Pacific Commission and the Fisheries Agency.
 - 2-6. There is a considerable local demand because of the high standard of living, especially from the 60,000 inhabitants of the Noumea complex.

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The increase in local consumption has led to increasing en falskard strengt i stadstade importations:-

Purchases made by New Caledonia - 1000	dollars US	
	1969	<u>1970</u>
Fish	69,680 241 680	85,130
Tinned -	241,000	140,090
Fish Crustaceans and molluscs	<u>63,330</u>	419,770
Total	754,880	927 , 750

This represents importing from outside per inhabitant US \$ 6.56 in 1969 and US \$ 7.41 in 1970, the increase affecting mostly molluscs and crustaceans.

At present in New Caledonia for the oyster market alone about 300,000 dozens per year are sold at very high prices (US \$ 1.40 to 2.00 per dozen). The crustacean market, mostly prawns, amounts only to approximately a 100 tons because of supply difficulties and too high prices, US \$ 6 to 8 per kilo.

3. Objectives

To create and develop an experimental sea water and brackish water culture and farming centre to improve some activities under way (osyter farming) and to launch new productions (culture of other molluscs beside oysters, culture of prawns, culture of certain species of fish).

4. Work Programme

1 November 1971 - 29 February 1972:

- (1) Selection of sites and planning of major works.
- (2) Thorough reconnaissance to ascertain the availability of natural prawn stock in mangrove channels and inland bays.
- (3) Experimentation of fishing methods with set gear to catch predators, evaluation of the dynamics of the stock of crustaceans and fish and harvesting of adults in large size ponds.
- (4) Additional documentation to be obtained by the Project Manager in Australia, New Zealand, Japan, United States and Europe.
- (5) Submission of the detailed project to FAO and to the New Caledonian administration.

1 March 1972 - 31 July 1972:

- (1) Building of major works (dams and banks, supply and discharge of water), fitting of pumps and electricity.
- (2) Development of Japanese oyster culture and of spat from the United States.
- (3) Start of culture of some species of penaeid prawns in controled 200 cubic metre tanks with local, Australian and Japanese stock.

1 August 1972 - 31 December 1972:

- (1) Study of growth rates of the major oyster species up to marketable size.
 - (2) Study of growth rates of penaeid prawns and use of a wide variety of natural and artificial foodstuffs.
 - (3) Storing controled tanks some species of fish especially mullets (mugilides) to study feeding and reproduction.

Expert services: 3 months expert qualified skipper fisherman 10 months expert molluscs culture 12 months expert prawn culture Travel by experts and the Project Manager Specialized scientific equipment Fishing gear and other equipment Dollars US 10 or 10,000,000 fr CF Draft budget for the Territorial counterpart Per diem of experts Transport (Land Rover, van, light craft with outboard engine) Infrastructure work - Buildings and shelters Dams, earthmoving, work on banks Hydraulic supply and discharge pipes	<u>US</u> 7,500 25,000 30,000 15,000 12,500 10,000
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<pre>10 months expert molluscs culture 12 months expert prawn culture Travel by experts and the Project Manager Specialized scientific equipment Fishing gear and other equipment Dollars US 10 or 10,000,000 fr CF Draft budget for the Territorial counterpart Per diem of experts Transport (Land Rover, van, light craft with outboard engine) Infrastructure work - Buildings and shelters Dams, earthmoving, work on banks Hydraulic supply and discharge pipes</pre>	25,000 30,000 15,000 12,500 10,000
12 months expert prawn culture Travel by experts and the Project Manager Specialized scientific equipment Fishing gear and other equipment Dollars US 10 or 10,000,000 fr CF Draft budget for the Territorial counterpart Per diem of experts Transport (Land Rover, van, light craft with outboard engine) Infrastructure work - Buildings and shelters Dams, earthmoving, work on banks Hydraulic supply and discharge pipes	30,000 15,000 12,500 10,000
Travel by experts and the Project Manager Specialized scientific equipment Fishing gear and other equipment Dollars US 10 or 10,000,000 fr CF Draft budget for the Territorial counterpart Per diem of experts Transport (Land Rover, van, light craft with outboard engine) Infrastructure work - Buildings and shelters Dams, earthmoving, work on banks Hydraulic supply and discharge pipes	15,000 12,500 10,000
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outboard engine) Infrastructure work - Buildings and shelters Dams, earthmoving, work on banks Hydraulic supply and discharge pipes	20,000
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Dams, earthmoving, work on banks Hydraulic supply and discharge pipes	20,000
Hydraulic supply and discharge pipes	15,000
	5,000
Concrete controlled tanks	10,000
Pumps and sluices	15,000
Electrical installation	10,000
Purchase and transport of breeding stock	
(oysters, prawns)	4,000
Purchase of natural and artificial foodstuff	4,000
Staff -	
2 qualified assistants	25,000
2 professional manual workers	12,000
Dollars US 1 	50,000
That is split 40% for SPIFDA and 60% for the Territory of Ne	P

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<u>Note</u>: It should be noted that part of the territorial counterpart may be provided by the administration in kind (Public Works, Agriculture Civil Engineering, Fisheries Service) and that part of the equipment can be made available temporarily (vehicles, electrical installation, pumps).

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7. <u>Recruitment of experts</u>

M. John Glude should remain in charge of the oyster development programme with if necessary a second expert to follow up problems of controlled reproduction of various species of molluscs.

An expert in **crus**tacean culture with scientific qualifications as a laboratory manager and practical experience of managing experimental farms during at least two years will have to be recruited. A skipper fisherman qualified in backwater and delta channel fishing will be recruited for three months for the preliminary phase. Depending on M. Villaluz's conclusions an expert may be recruited later for fish farming.